This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

Formerly C&GS 6980, 1st Ed., May 1982

16520

LORAN-C OVERPRINTED

UNITED STATES

ALASKA - ALEUTIAN ISLANDS

UNIMAK AND AKUTAN PASSES

AND APPROACHES

Mercator Projection
Scale 1:300,000 at Lat. 54°20.5'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN ~~FATHOMS~~ METERS
AT MEAN LOWER LOW WATER

AMAK ISLAND
Scale 1:80,000 at Lat. 54°20.5'

B E R I N G S E A

U N I M A K

U N I M A K P A S S

SAFETY FAIRWAY
166.400
(see note A)

A K U T A N

K R E N I T Z I N I S L A N D S

U N A L A S K A
I S L A N D

P A C I F I C O C E A N

LORAN LINEAR INTERPOLATOR

NOTE B

Mariners are urged to use extreme caution while navigating in Bechevin Bay. The channel through the bay entrance and Bechevin Bay is subject to frequent change. Local knowledge of the area is essential for safe navigation.

CAUTION

Significant changes in depths and shoreline may have occurred in the area of this chart as a result of the earthquake of March 27, 1964. Tidal observations since the earthquake indicate bottom uplift of +0.3 feet in King Cove. Mariners are urged to use extreme caution when navigating in the area of this chart as the magnitude of change except at this site is not known.

LOCAL MAGNETIC DISTURBANCE

Magnetic disturbances have been observed in the area covered by this chart. Differences from the normal variation are as follows:

Cold Bay, near Volcanoes Pt.	14°
Krenitzin Island, Tigalda I.	5°
Berkofski Bay, east coast	4°
Unalaska Island, Beaver Inlet	4°
Aleutian and Rodiak Islands	3°

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.
Refer to charted regulation section numbers.

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard, Light Lists and Defense Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus
(Accurate location) (Approximate location)

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 9 for important supplemental information.

For Symbols and Abbreviations see Chart No. 1

HEIGHTS

Elevations of rocks and lights are in feet above Mean High Water. Contour values and summit elevations refer to Mean Sea Level.

AUTHORITIES

Hydrography and topography by the National Ocean Service. Control by Geodetic Service with additional data from the Geological Survey and the Coast Guard.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

CAUTION

Extremely heavy tide rips and strong currents which at times make control of a vessel difficult may be encountered in the passages between the North Pacific Ocean and the Bering Sea.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

LOCAL MAGNETIC DISTURBANCE

LORAN LINEAR INTERPOLATOR

(CONTINUED ON CHART 16011)

(CONTINUED ON CHART 16520)

(CONTINUED ON CHART 16540)

SOUNDINGS IN FATHOMS

21st Ed., Apr 15/89 ■

16520

LORAN-C OVERPRINTED

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

C 55. 418/7: 16520

SOUNDINGS IN FATHOMS

Nautical Chart Catalog No. 3, Panels F, M

Formerly C&GS 8800, 1st Ed., May 1992

(CONTINUED ON CHART 16011)

NOAA

NATIONAL OCEAN SERVICE

ITED STATES

ALEUTIAN ISLANDS

) AKUTAN PASSES

APPROACHES

Mercator Projection
e 1:300,000 at Lat. 54°20.5'
th American Datum of 1983
orld Geodetic System 1984)

OUNDINGS IN FATHOMS
EAN LOWER LOW WATER

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 3.12" southward and 7.037" westward to agree with this chart.

NOTE B

Mariners are urged to use extreme caution while navigating in Bechevin Bay. The channel through the northernmost and Bechevin Bay is subject to frequent shoaling. Local knowledge of the area is essential for safe navigation.

CAUTION

Significant changes in depths and shorelines may have occurred in the area of this chart as a result of the earthquake of March 27, 1964. Tidal observations since the earthquake indicate bottom uplift of +0.3 feet in King Cove. Mariners are urged to use extreme caution when navigating in the area of this chart as the magnitude of change except at this site is not known.

LORAN LINEAR INTERPOLATOR

LOCAL MAGNETIC DISTURBANCE

LOCAL MAGNETIC DISTURBANCE

Magnetic disturbances have been observed in the area covered by this chart. Differences from the normal variation are as follows:

Cos.; Bay, near Vodopolmi Pt.	14°
Krenitzin Island, Tigalda I.	6°
Belkofski Bay, east coast	5°
Unalaska Island, Beaver Inlet	4°
Akutan and Rootok Islands	3°

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.
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CAUTION

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Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
(A)Accurate location) (Approximate location)

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 9 for important supplemental information.

For Symbols and Abbreviations see Chart No. 1

HEIGHTS

Elevations of rocks and lights are in feet above Mean High Water. Contour values and summit elevations refer to Mean Sea Level.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Service with additional data from the Geological Survey, and the U.S. Coast Guard.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

CAUTION

Extremely heavy ice rips and strong currents which at times make control of a vessel difficult may be encountered in the passages between the North Pacific Ocean and the Bering Sea.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

LORAN-C
GENERAL EXPLANATION

LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL ..... 99900 Microseconds
STATION TYPE DESIGNATORS (Not individual station letter designators)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary
EXAMPLE 9990-X

RATES ON THIS CHART
9990-X 9990-Y 9990-Z

The Loran-C lines of position overprinted on this chart have been prepared for use with ground wave signals and are presently compensated only for theoretical propagation which have not yet been verified by observed data. Mariners are cautioned not to rely entirely on the lattices in inshore waters. Skywave corrections are not provided.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOTE X

TERRITORIAL SEA AND CONTIGUOUS ZONE

The lines delimiting the territorial sea and contiguous zone represent an interdepartmental committee's interpretation of legal principles as applied to geographical information. The lines are subject to revision when required by correction of the geographic information known or by reinterpretation of the legal principles involved. Where differences occur between adjacent or overlapping charts, the lines shown on the most recent chart issue have precedence.

BERING SEA

PACIFIC OCEAN

UNIMAK PASS

SAFETY FAIRWAY
166.400
(see note A)

UNIMAK I.

ALASKA PEN.

ISLANDS

PACIFIC OCEAN

(CONTINUED ON CHART 16011)

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

(Unimak and Akutan Passes)
SOUNDINGS IN FATHOMS - SCALE 1:300,000

16520
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